

**12<sup>th</sup> Meeting of the Hydrographic Commission on Antarctica (HCA)  
Montevideo, Uruguay, 10-12 October 2012**

**ENC SCHEMES AND PRODUCTION STATUS IN ANTARCTICA**

**September 2012**

**Summary**

**I. ENC SCHEMES**

An ENC scheme for Usage Bands 1 "overview" and 2 "general" was agreed in 2007 (HCA Letter 1/2007 refers). An ENC scheme for Usage Band 3 "coastal" was agreed in 2009 (Action 8/13 from HCA8 refers). They are available from the IHO website: [www.iho.int](http://www.iho.int) > Committees & WGs > HCA > Miscellaneous > [Small Scale ENC Scheme \("overview" and "general"\)](#) and [Medium Scale ENC Scheme \("coastal"\)](#).

**II. ENC PRODUCTION**

From the information available at the IHB, 70 ENC's have been published to date. These include 13 "overview", 10 "general", 17 "coastal", 15 "approaches", 14 "harbour" and 1 "berthing". An additional 51 ENC's are planned for publication in 2012-13. The current status of ENC production in Antarctica is as follows (changes since HCA11 have been emphasized in **yellow**):

- **Argentina**

- Planned 2012/13
  - 1 "general" ENC (AR207000) based on INT 9170 and AR H-724.
  - 1 "coastal" ENC (AR307240) based on INT 9156 and AR H-724.
  - 1 "approaches" ENC based on INT 9111?
  - 2 "harbour" ENC's based on INT 9142 and INT 9101?

- **Australia**

- Published
  - 1 "coastal" ENC based on INT 9014 (AU367142).
  - 4 "approaches" ENC's based on INT 9036 (AU468062 and AU468063), INT 9014 (AU468142) and INT 9032 (AU460280).
  - 2 "harbour" ENC's based on INT 9036 (AU5600P1) and INT 9014 (AU5603P1).
- Planned 2012/13 :
  - 4 « overview » ENC's based on INT 74 (AU190060, AU190090, AU190120 and AU190150) ?
  - 8 « general » ENC's based on INT 9035 (AU270050), INT 9035 & 9033 (AU270060), INT 9033 & 9030 (AU270070), INT 9030 & 9031 (AU270080), INT 9031 (AU270090), INT 9020 (AU270100 and AU270110) and Aus 597 (AU2597P0).
  - 4 « approach » ENC's based on INT 9037 (AU68060 and AU68061), INT 9021 (AU466110 and AU467110).
  - 1 « harbour » ENC based on INT 9021 (AU601P1).

- **Brazil**

- Published
  - 1 "coastal" ENC based on INT 9150 (BR325110)
  - 1 « approaches » ENC based on BR 25121 (BR425121)
  - 1 "harbour" ENC based on BR 25121 (BR525121)

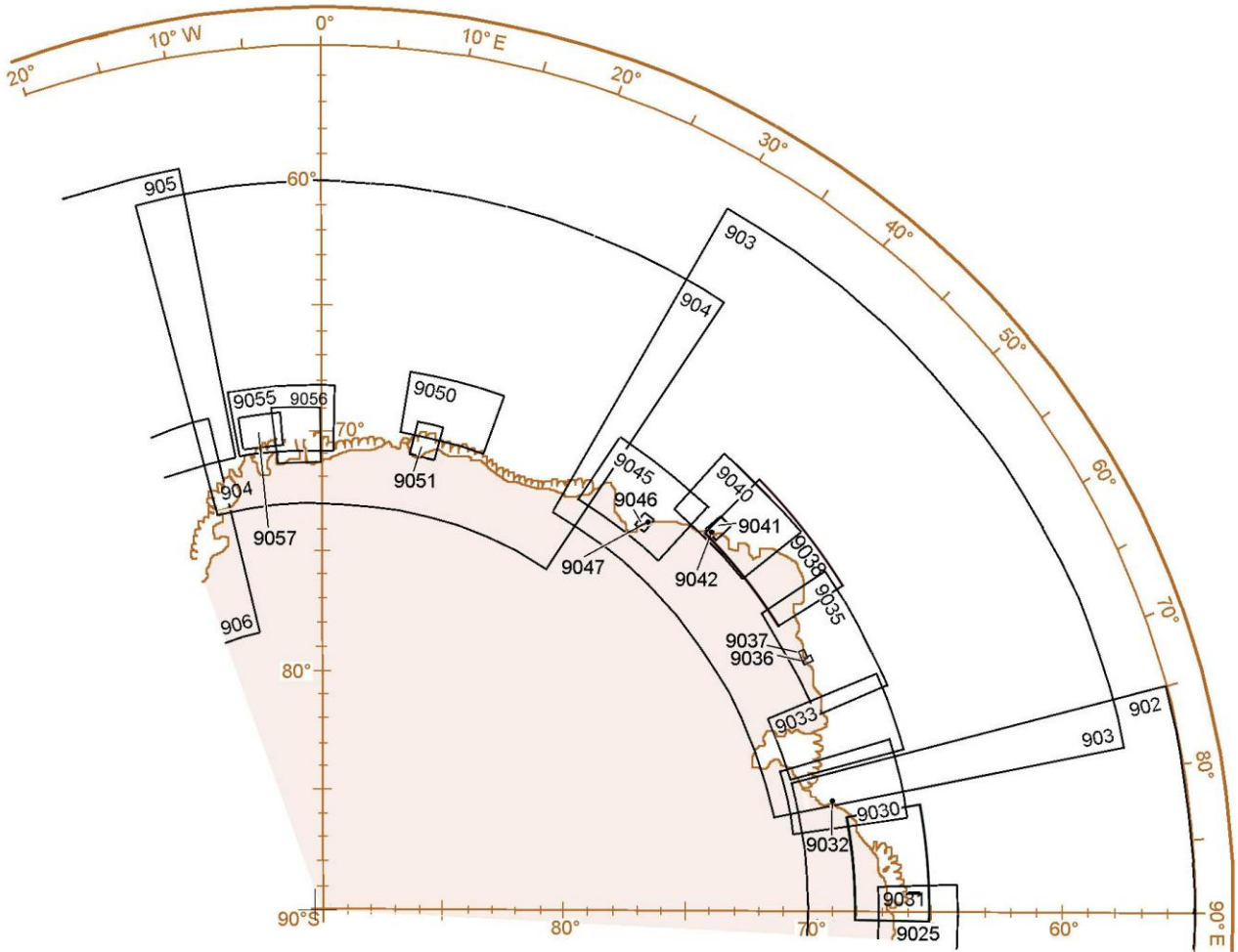
- **Chile**

- Published:
  - 1 “coastal” ENC (CL3MA850)
  - 3 “harbour” ENCs based on INT 9102 (CL5MA890), INT 9155 (CL5MA800 and CL5MA860).
- Planned 2013 :
  - 1 « approaches » ENC based on INT 9124.
  - 1 “harbour” ENC based on INT 9123.
- **France**
  - Published:
    - 1 “approaches” ENC based on INT 9016 FR475940).
    - 1 “harbour” ENC based on INT 9017 (FR575930).
    - 1 “berthing” ENC based on INT 9017 (FR67593A).
  - Planned:
    - 1 “overview” ENC based on INT 901 (FR175910).
    - “coastal” ENCs based on FR 6741, FR 6498 and FR 7171.
- **Germany**
  - Published
    - 1 “general” ENC based on INT 9055 (DE260001).
    - 1 « coastal » ENC based on INT 9057 (DE3600010).
  - Planned 2013:
    - 1 “overview” ENC based on INT 905.
- **Italy**
  - Published
    - 2 « coastal » ENCs based on INT 9004 (IT300884) and INT 9005 (IT300881).
    - 1 “harbour” ENC based on INT 9005 (IT400881).
- **Japan**
  - Published:
    - 1 “general” ENC based on INT 9045?
    - 4 “coastal” ENCs based on INT 9046 (JP30ODCO, JP30ODCS, JP30PKEO, JP30PKES) in 2011.
    - 4 “approaches” ENCs based on INT 9047 (JP40POTS, JP40POTU, JP40PKES, JP40PKEU) in 2011.
    - 2 “harbour” ENCs based on INT 9047 (JP50PAME, JP50PKEU) in 2011.
- **New Zealand**
  - Published:
    - 2 “overview” ENCs based on INT 65 (NZ14065E and NZ14065W).
    - 2 “general” charts based on INT 900 (NZ21490E and NZ21490W).
  - Planned 2013:
    - 3 “coastal” ENCs based on INT 9008 (NZ314908), INT 9009 (NZ314909) and INT 9012 (NZ314912).
    - 5 “approach” ENCs based on INT 9001 (NZ414901), INT 9003 (NZ414903), INT 9006 (NZ414961 and NZ414962) and INT 9007 (NZ414907).
    - 4 “harbour” ENCs based on INT 9002 (NZ514902), INT 9003 (NZ514903) and INT 9006 (NZ514961 and NZ514962).
- **Norway**
  - Published:
    - 1 “overview” ENC based on INT 904 (NO1A5500).

- Planned 2013:
  - 1 “overview” ENC based on INT 909.
- **Russian Federation**
  - Published:
    - 2 “overview” ENCs based on INT 903 (RU1A2K00) and INT 902 (RU1B0PF0).
    - 6 “general” ENCs based on INT 9172 (RU2A1AD0), INT 9060 (RU2ANEN0), INT 9050 (RU2A0ES0), INT 9040 (RU2BNM40), INT 9025 (RU2BLQN0) and INT 9010 (RU2A2X10).
    - 3 “coastal” ENCs based on INT 9051 (RU3A2J30), INT 9041 (RU3BNMF0) and INT 9011 (RU3BRXL0).
    - 1 “approaches” ENC based on INT 9026 (RU4BKR40).
    - 2 “harbour” ENCs based on INT 9042 (RU5BNMH0) and INT 9027 (RU5BJR80).
  - Planned 2012:
    - 4 “harbor” ENCs based on RU 48922 (RU5BNMH2), RU 48919 (RU5BNMH1), RU 48956 and RU 48956-A.
- **South Africa**
  - Planned 2013:
    - 1 “coastal” ENC based on INT 9056 (ZA300300).
- **Spain**
  - Planned 2013?:
    - 1 “approaches” ENC based on INT 9121.
    - 1 “harbor” ENC based on INT 9128.
- **UK**
  - Published:
    - 8 “overview” ENCs based on INT 24 (GB104024B), INT 64 (GB104064B), INT 75 (GB104075), INT 63 (GB104063), INT 74 (GB104074), INT 907 (GB104907), and on national charts BA 4213 (GB104213) and BA 3200 (GB103200).
    - 4 “coastal” ENCs based on INT 9158 (GB372110), INT 9153 (GB372220), INT 9154 (GB372210), and INT 9163 (GB302974).
    - 2 “approaches” ENCs based on INT 9106 (GB47211A) and INT 9109 (GB47201A).
    - 2 “harbour” ENCs based on INT 9158 (GB57211A and GB57211B).
  - Planned 2013:
    - 1 “overview” ENC (GB104906), based on INT 906.
    - 1 “coastal” ENC (GB303566), based on BA 3566.
- **USA**
  - Planned 2013?:
    - 1 “coastal” ENC based on INT 9062.
    - 1 “approaches” ENC based on INT 9105.

**Note:** In the following tables taken from S-11, INT-related ENCs have been marked in green whilst those under preparation or planned for the coming year appear in yellow. See also Annex C to HCA12-INF3.

LAZAREV SEA TO COOPERATION SEA (20°W – 90°E)



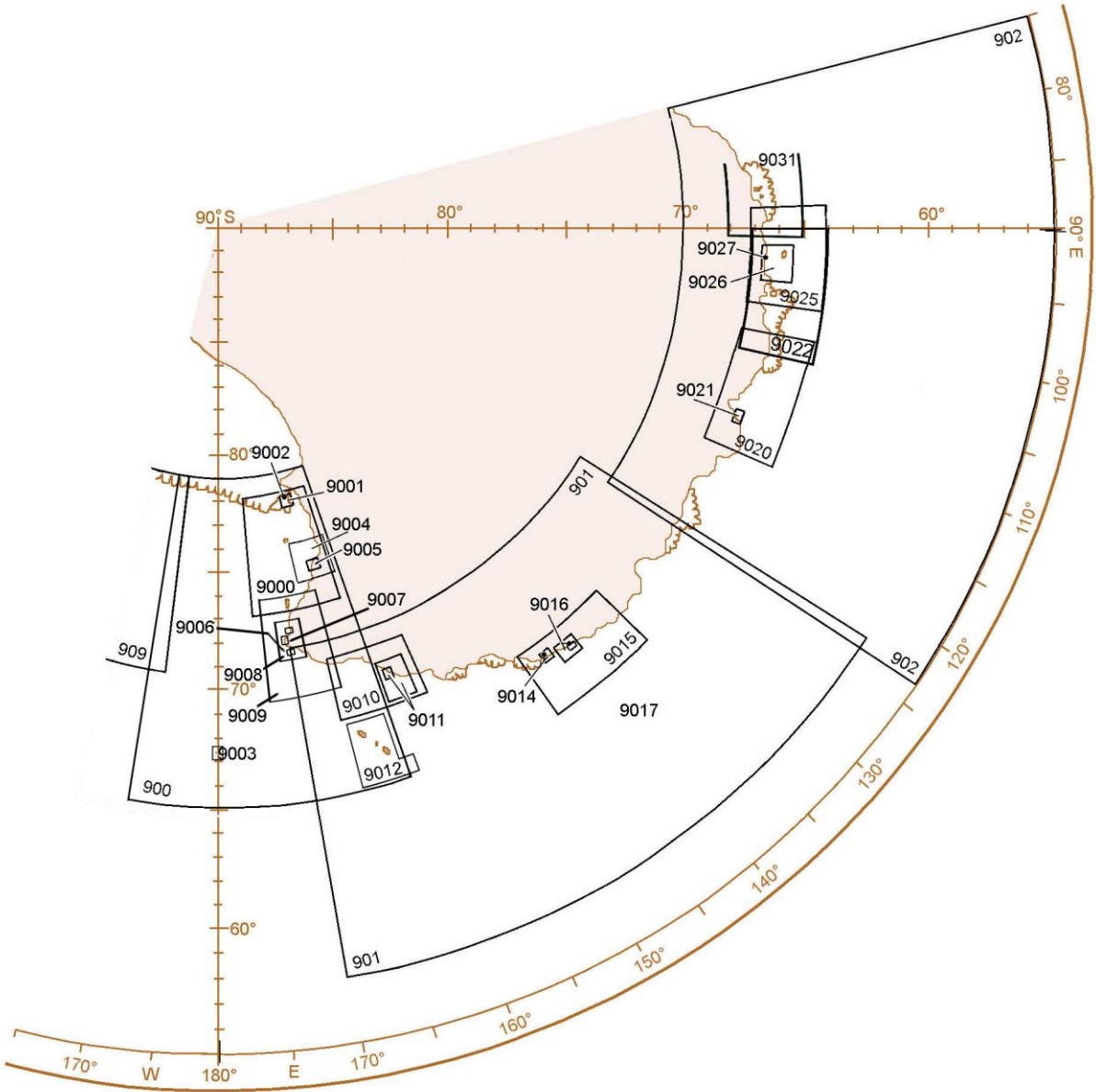
## LAZAREV SEA TO COOPERATION SEA (20°W – 90°E)

INT No.	Scale 1:	Latest Edition	INT Producer	ENC available ?	ENC Producer	Latest Edition	ENC Number	Comments
903	2 000 000	2001	RU	YES	RU	2012	RU1A2K00	
904	2 000 000	2002	NO	YES	NO	2008	NO1A5500	
9030	500 000	1992	AU	Proj. 2012/13	AU	2011	AU270070 AU270080	
9031	500 000	2002	AU	Proj. 2012/13	AU	2011	AU270080 AU270090	
9032	12 500	2003/Proj. 2012	AU	Proj. 2013 ?	AU	2011	AU468077 AU469077	
9033	500 000	1991/Proj. 2013?	AU	Proj. 2012/13	AU	2011	AU270060 AU270070	
9035	500 000	1993/Proj. 2013?	AU	Proj. 2012/13	AU	2011	AU270050 AU270060	
9036	25 000	2007/Proj. 2013 ?	AU	YES	AU	2008	AU468062 AU468063 AU5600P1	
9037	25 000	2011	AU	Proj. 2012/13	AU		AU68060 AU68061	
9038	500 000	2011	AU	--				
9040	500 000	2010	RU	YES	RU	2012	RU2BNM40	
9041	100 000	2010	RU	YES	RU	2012	RU3BNMF0	
9042	12 500	2010	RU	YES	RU	2012	RU5BNMH0	
9045	500 000	2011	JP	YES?	JP	2012?		
9046	100 000	2010	JP	YES	JP	2011	JP30ODCO, JP30ODCS, JP30PKEO, JP30PKES	
9047	10 000	2009	JP	YES	JP	2011	JP40P0TS, JP40P0TU, JP40PKES, JP40PKEU, JP50PAME, JP50PKEU	
9050	500 000	1999	RU	YES	RU	2012	RU2A0ES0	
9051	200 000	2010	RU	YES	RU	2012	RU3A2J30	
9055	500 000	2009	DE	YES	DE	2009	DE260001	
9056	300 000	2009	ZA	Proj. 2013	ZA		ZA300300	
9057	200 000	2009	DE	YES	DE	2009	DE3600010	

## DAVIES SEA TO ROSS SEA (75°E – 165°W)

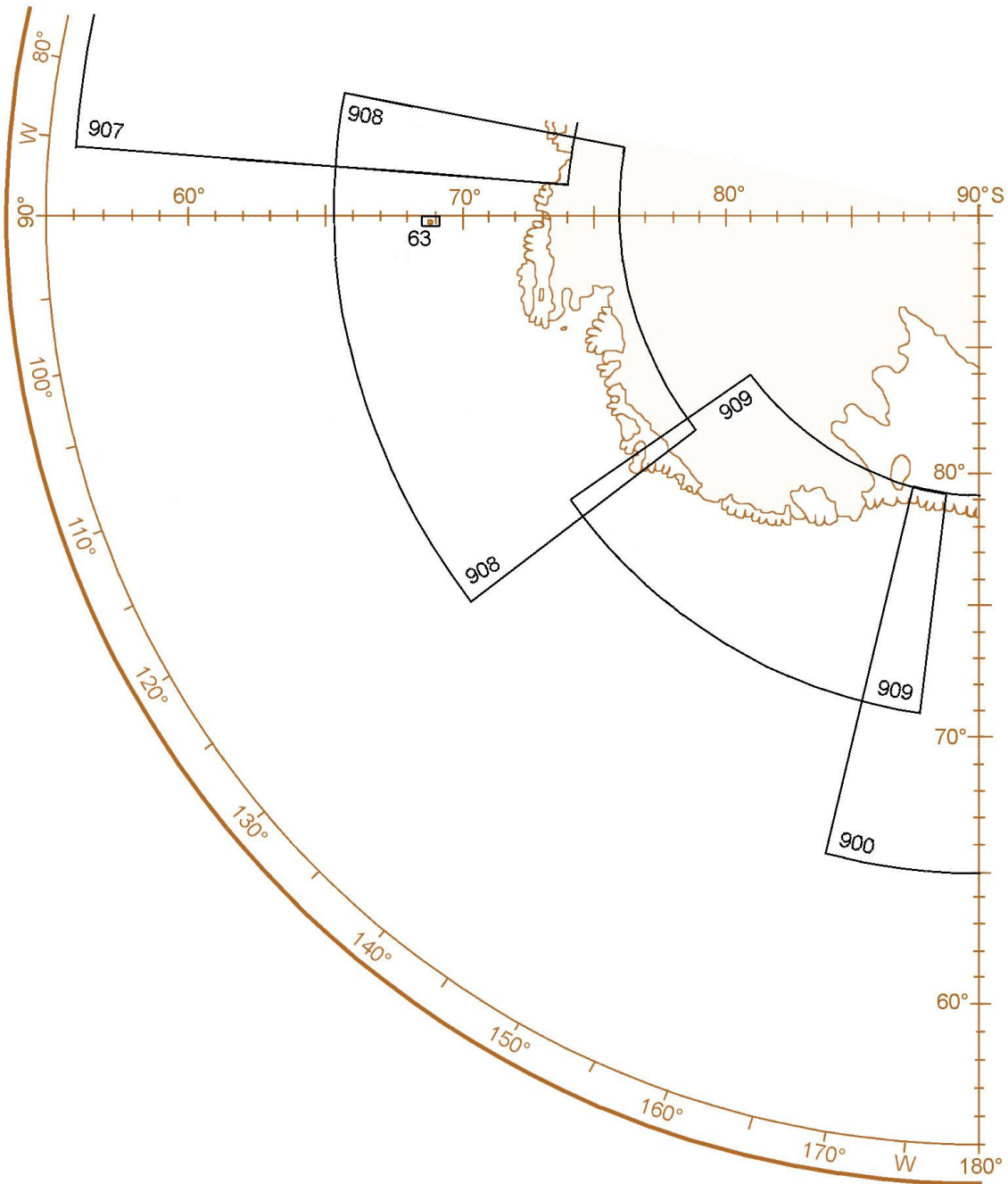
INT No.	Scale 1 :	Latest Edition	INT Producer	ENC available ?	ENC Producer	Latest Edition	ENC Number	Comments
900	2 000 000	1998	NZ	YES	NZ	2012	NZ21490E NZ21490W	
901	2 000 000	2006	FR	Proj.	FR		FR175910	
902	2 000 000	2010	RU	YES	RU	2012	RU1B0PF0	
9000	500 000		IT	--				
9001	50 000	2007	NZ	Proj. 2013	NZ		NZ414901	
9002	5 000	2007	NZ	Proj. 2013	NZ		NZ514902	
9003	75 000	2008	NZ	Proj. 2013	NZ		NZ414903 NZ514903	
9004	250 000	2007	IT	YES	IT	2007	IT300884	
9005	50 000	2000	IT	YES	IT	2007	IT300881 IT400881	
9006	50 000	2003	NZ	Proj. 2013	NZ		NZ414961 NZ414962 NZ514961 NZ514962	
9007	60 000	2003	NZ	Proj. 2013	NZ		NZ414907	
9008	200 000	2003	NZ	Proj. 2013	NZ		NZ314908	
9009	500 000	2004	NZ	Proj. 2013	NZ		NZ314909	
9010	500 000	2010	RU	YES	RU	2012	RU2A2X10	
9011	200 000	2010	RU	YES	RU	2012	RU3BRXL0	
9012	750 000	2006	NZ	Proj. 2013	NZ		NZ314912	
9014	25 000	2011	AU	YES	AU		AU367142 AU468142 AU5603P1	
9015	500 000	2004	FR	--				
9016	100 000	2004	FR	YES	FR	2008	FR475940	
9017	20 000	2002	FR	YES	FR	2008	FR575930 FR67593A	
9020	500 000	1998	AU	Proj. 2012/13	AU		AU270100 AU270110	
9021	50 000	1999/Proj. 2013?	AU	Proj. 2012/13	AU		AU466110 AU467110 AU601P1	
9022	500 000	Proj. 2013	AU	--				
9025	500 000	2010	RU	YES	RU	2012	RU2BLQN0	
9026	200 000	2010	RU	YES	RU	2012	RU4BKR40	
9027	10 000	2010	RU	YES	RU	2012	RU5BJR80	

DAVIES SEA TO ROSS SEA (75°E – 165°W)



## ROSS SEA TO BELLINGSHAUSEN SEA (180°W – 80°W)

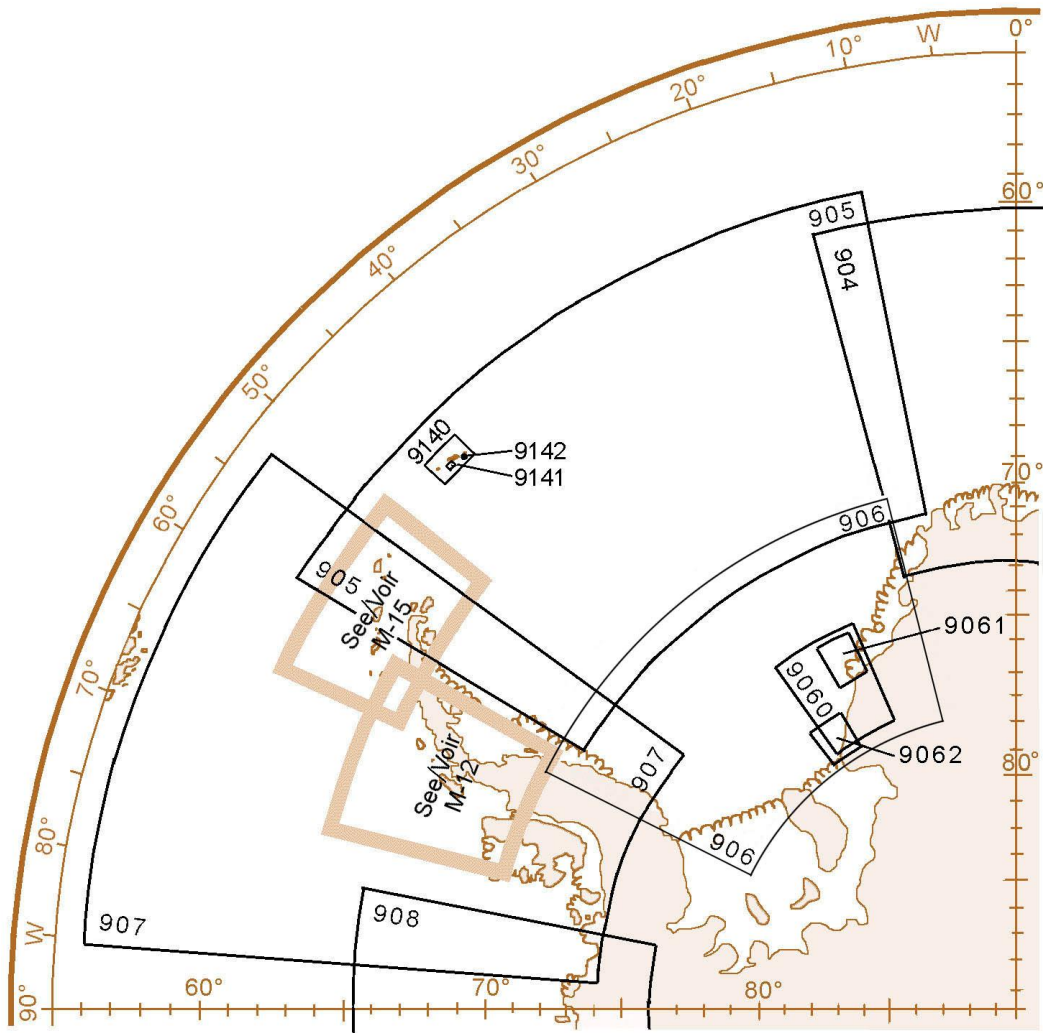
INT No.	Scale 1:	Latest Edition	INT Producer	ENC Available ?	ENC Producer	Latest Edition	ENC Number	Comments
908	2 000 000		GB	--				
909	2 000 000	Proj. 2013	NO	Proj. 2013				





**BELLINGSHAUSEN SEA TO WEDDELL SEA (90°W – 0°W)**

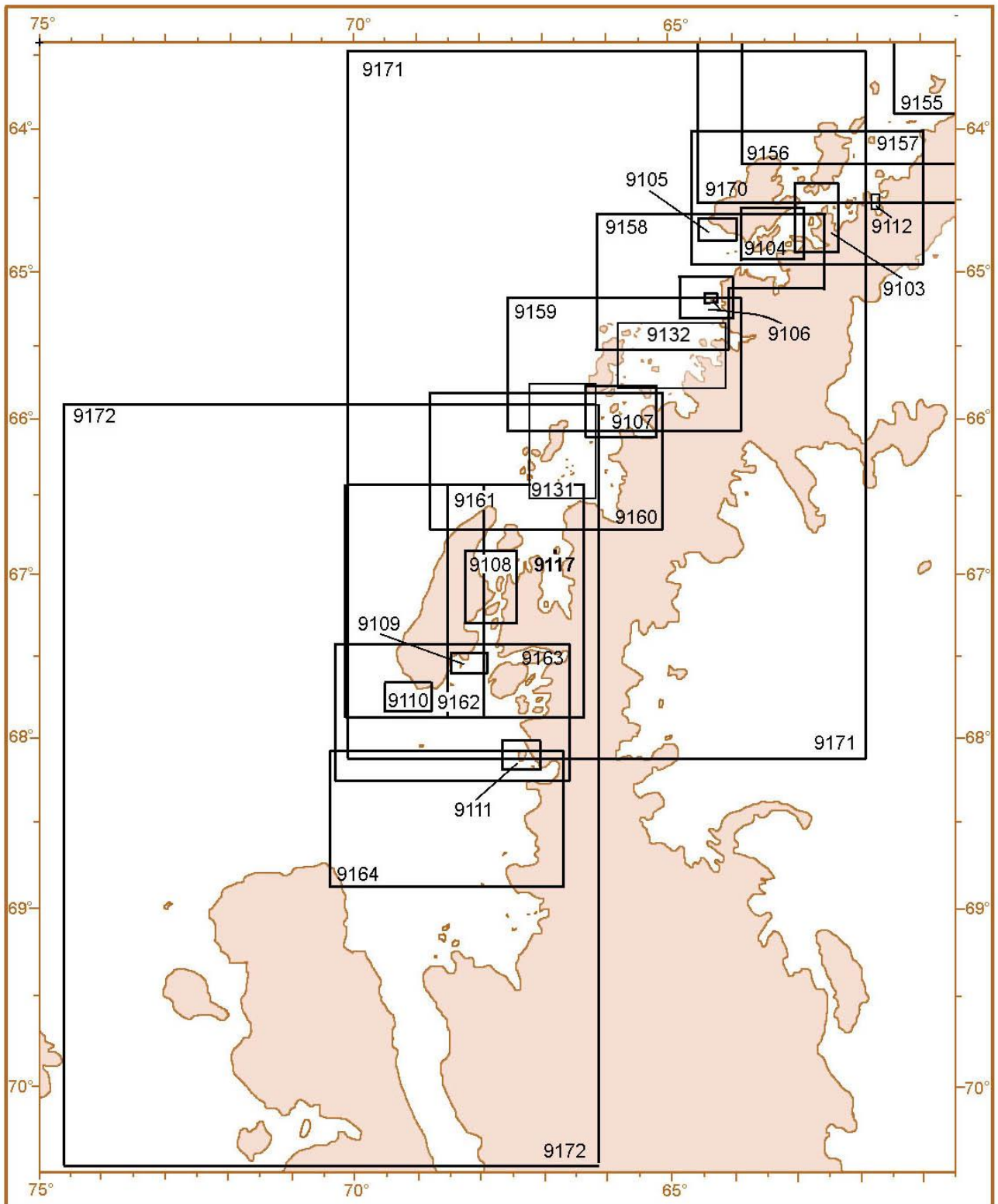
INT No.	Scale 1:	Latest Edition	INT Producer	ENC Available ?	ENC Producer	Latest Edition	ENC Number	Comments
905	2 000 000	Proj. 2013	DE	Proj. 2013	DE			
906	2 000 000	2005	GB	Proj. 2013	GB		GB104906	
907	2 000 000	2000	GB	YES	GB	2008	GB104907	
9060	500 000	2010	RU	YES	RU	2012	RU2ANEN0	
9061	200 000	2005	GB	--				
9062	200 000	2012	US	Proj. 2013?	US			
9140	150 000		AR	--				
9141	50 000	2006	GB	--				
9142	10 000	2012	AR	Proj. 2012?	AR			



## ANTARCTIC PENINSULA, GRAHAM LAND – PALMER LAND

INT No.	Scale 1:	Latest Edition	INT Producer	ENC Available ?	ENC Producer	Latest Edition	ENC Number	Comments
9103	50 000	Proj. 2013?	CL	--				
9104	50 000	Proj. 2014?	CL	--				
9105	25 000	2011	US	Proj. 2013?	US			
9106	60 000	1996	GB	YES	GB		GB47211A	
9107	50 000		GB	--				
9108	50 000		CL	--				
9109	25 000	1999	GB	YES	GB		GB47201A	
9110	30 000		CL	--				
9111	25 000	Proj. 2013	AR	Proj. 2013?	AR			
9117	10 000	Proj. 2014?	GB	--	GB			
9131	75 000		GB ?	--				
9132	75 000		GB ?	--				
9133	75 000	--	GB	--				
9157	150 000		CL	--				
9158	150 000	2003	GB	YES	GB		GB372110 GB57211A GB57211B	
9159	150 000	Proj. 2014?	GB	--				
9160	150 000	Proj. 2014?	GB	--				
9161	150 000		CL	--				
9162	150 000	Proj. 2014?	CL	--				
9163	150 000	2012	GB	YES	GB	2012	GB302974	
9164	150 000	Proj. 2014?	CL	--				
9171	500 000		GB	--				
9172	500 000	2010	RU	YES	RU	2012	RU2A1AD0	

ANTARCTIC PENINSULA, GRAHAM LAND – PALMER LAND



## ANTARCTIC PENINSULA, GRAHAM LAND – SOUTH SHETLANDS ISLANDS

INT No.	Scale 1:	Latest Edition	INT Producer	ENC available ?	ENC Producer	Latest Edition	ENC Number	Comments
9100	25 000		AR	--				
9101	10 000	Proj. 2013	AR	Proj. 2012/13?	AR			
9102	10 000	2003	CL	YES	CL	2004	CL5MA890	
9112	Various		GB	--				
9113	Various		GB	--				
9114	Various		GB	--				
9115	50 000		AR	--				
9116	Various		GB	--				
9120	50 000	2006/Proj. 2014?	AR	--				
9121	40 000	1998	ES	Proj. 2013?	ES			
9122	20 000	1998	CL	--				
9123	10 000	2007	CL	Proj. 2013	CL			
9124	25 000	2007	CL	Proj. 2013	CL			
9125	40 000	Proj. 2013?	BR & PE	--				
9126	40 000	Proj. 2014	BR	--				
9127	40 000	Proj. 2014	BR	--				
9128	5 000	Proj. 2012/13	ES	Proj. 2013?	ES			
9129	10 000	Proj. 2012	EC	--				
9130	75 000	Proj. 2015	GB	--				
9150	200 000	2009	BR	YES	BR		BR325110	Also BR425121 & BR525121
9151	200 000	Proj. 2015	CL & BR	--				
9152	200 000	Proj. 2015	CL & BR	--				
9153	150 000	2012	GB & AR	YES	GB		GB372220	
9154	150 000	2012	GB & AR	YES	GB		GB372210	
9155	150 000	2003	CL	YES	CL	2003	CL3MA800	
9156	150 000	2010	AR	Proj. 2012/13	AR		AR307240	Also H-724
9170	500 000	1997	AR	Proj. 2012/13	AR		AR207000	Also H-724

ANTARCTIC PENINSULA, GRAHAM LAND – SOUTH SHETLANDS ISLANDS

